Las Conchas Survey

Survey Areas
July 1, 2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA
NATIONAL DECON TEAM
EMERGENCY RESPONSE

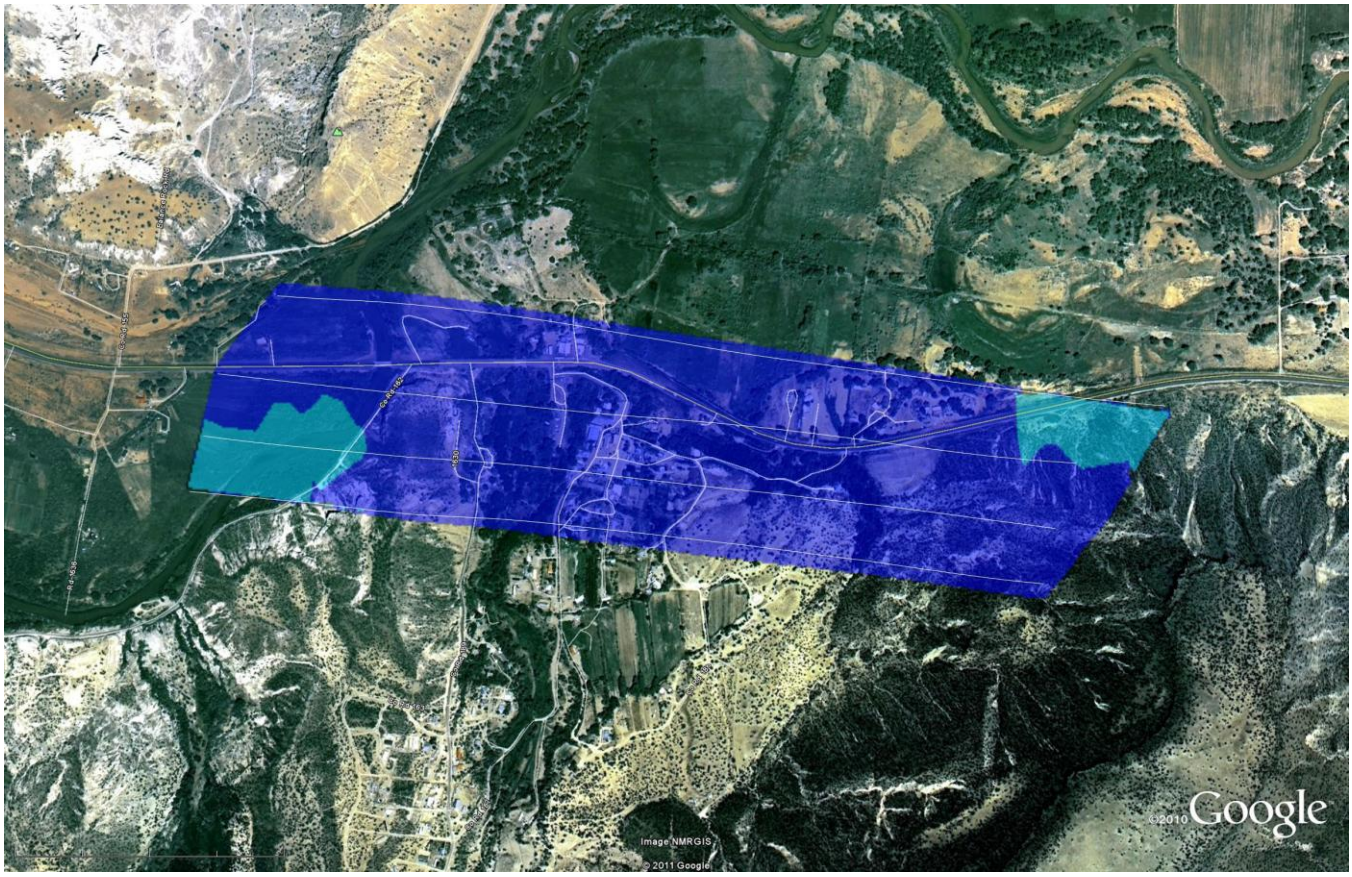
ASPECT Program

9463466

Las Conchas Survey

Image 1

Abiquiu Survey Area
Exposure Rate Contour Map
July 1, 2011



Parameter	Exposure Rate (uR/hr)		
	< 5.0000		25.000 : 30.000
	5.0000 : 10.000		30.000 : 35.000
	10.000 : 15.000		35.000 : 40.000
	15.000 : 20.000		40.000 : 45.000
	20.000 : 25.000		> 45.000

ASPECT Program

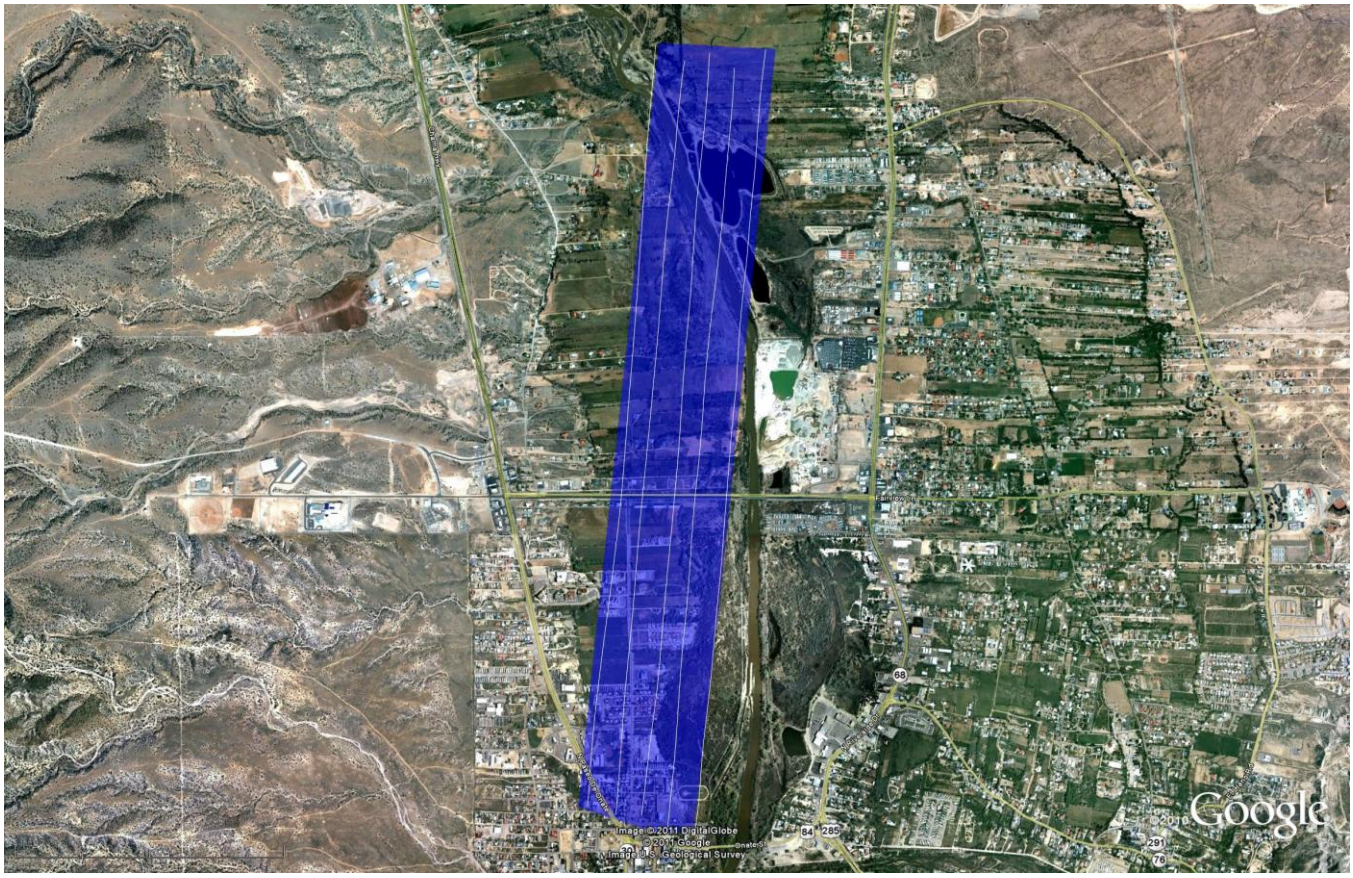
Flight Parameters

1000 ft altitude
500 ft line spacing
110 knots
1 second acquisition time

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 µR/hr. The maximum exposure rate for this survey was 6 µR/hr. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Image 2

Espanola Survey Area
Exposure Rate Contour Map
July 1, 2011



Parameter	Exposure Rate (uR/hr)		
	< 5.0000		25.000 : 30.000
	5.0000 : 10.000		30.000 : 35.000
	10.000 : 15.000		35.000 : 40.000
	15.000 : 20.000		40.000 : 45.000
	20.000 : 25.000		> 45.000

ASPECT Program

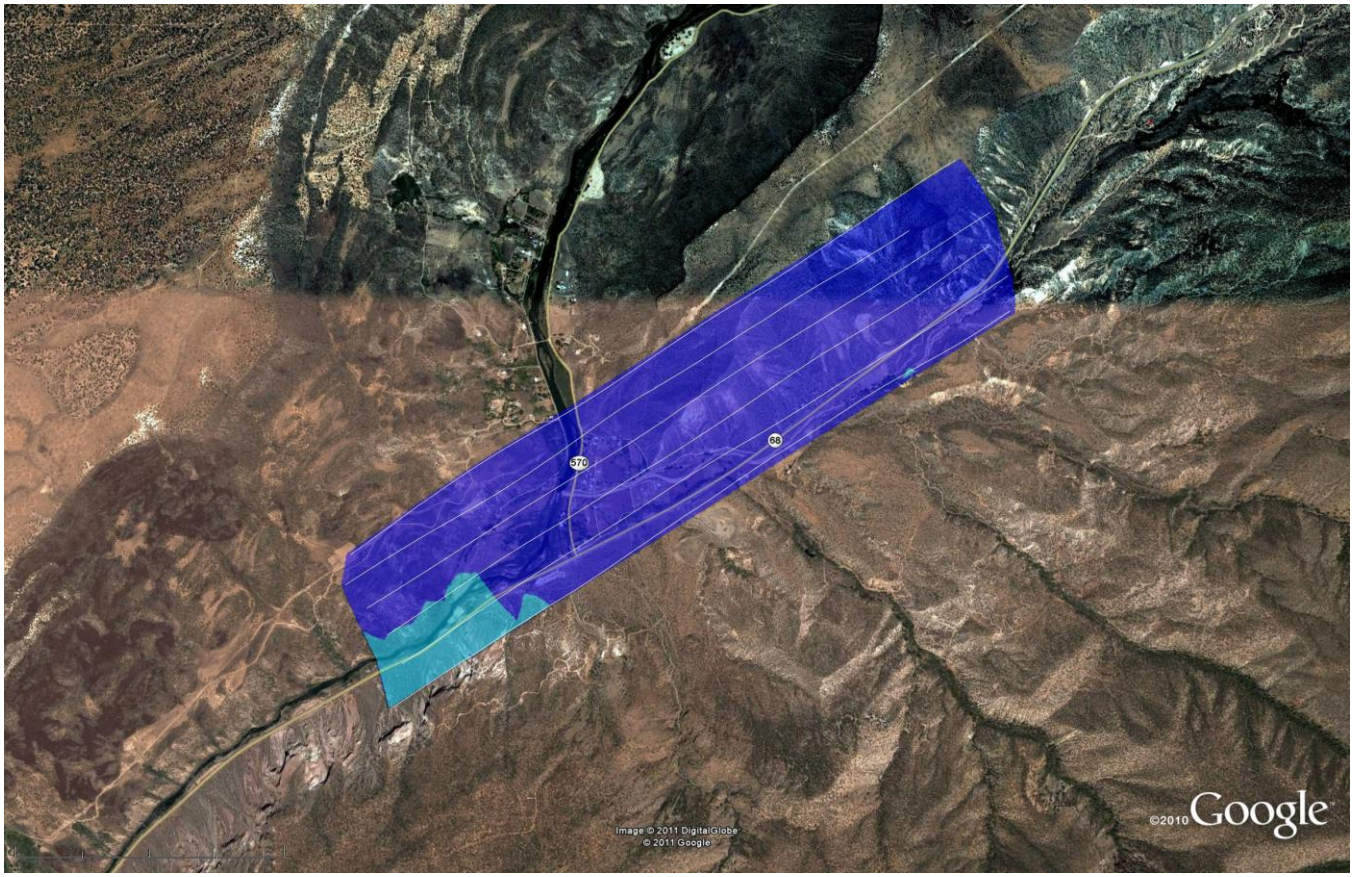
Flight Parameters

1000 ft altitude
500 ft line spacing
110 knots
1 second acquisition time

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 μR/hr. The maximum exposure rate for this survey was 5 μR/hr. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Image 3

Highway 68 Canyon Survey Area
Exposure Rate Contour Map
July 1, 2011



Parameter	Exposure Rate (uR/hr)		
	< 5.0000		25.000 : 30.000
	5.0000 : 10.000		30.000 : 35.000
	10.000 : 15.000		35.000 : 40.000
	15.000 : 20.000		40.000 : 45.000
	20.000 : 25.000		> 45.000

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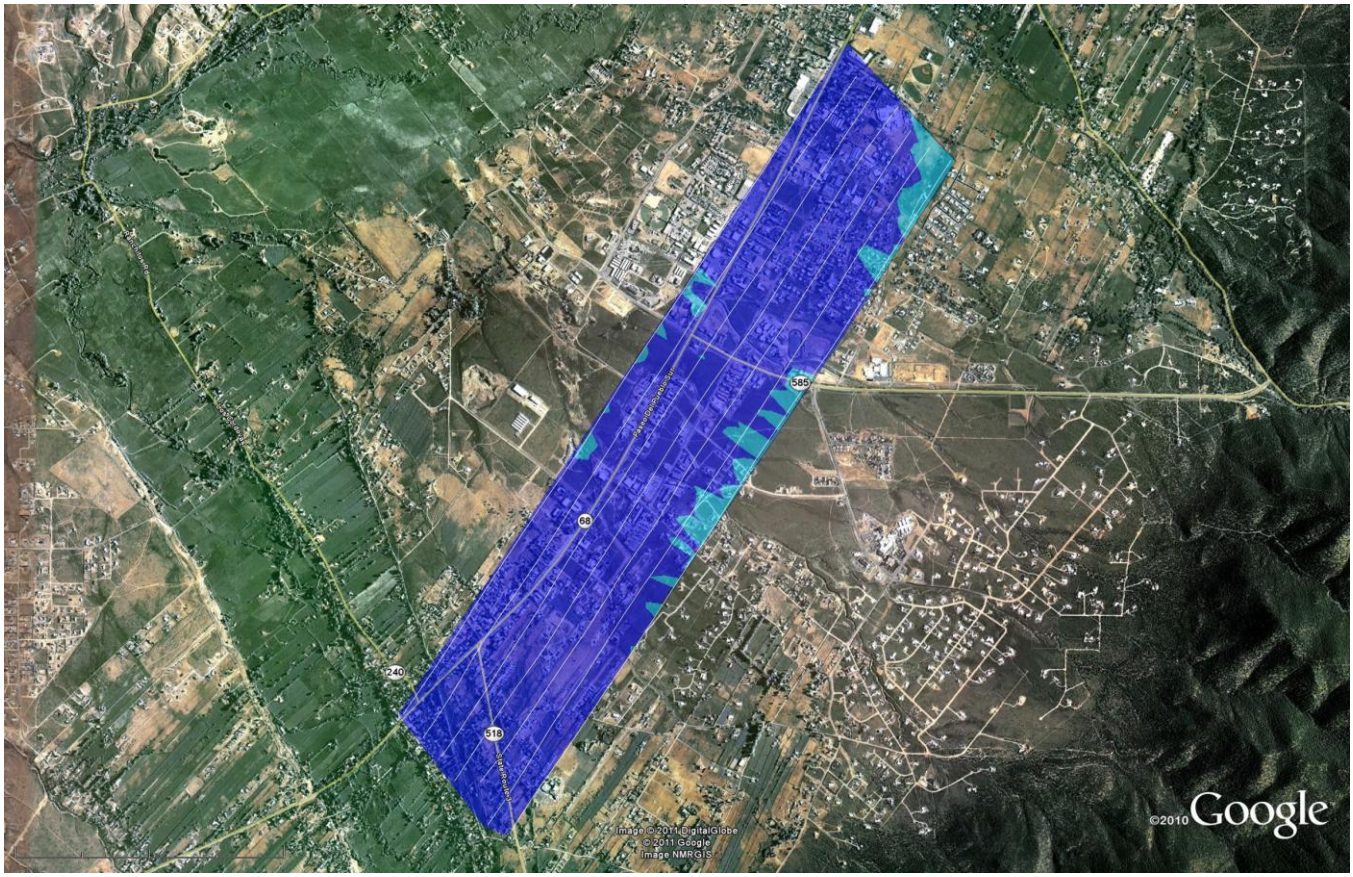
Flight Parameters

1000 ft altitude
500 ft line spacing
110 knots
1 second acquisition time

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 µR/hr. The maximum exposure rate for this survey was 8 µR/hr. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Image 4

Taos Survey Area
Exposure Rate Contour Map
July 1, 2011



Parameter	Exposure Rate (uR/hr)		
	< 5.0000		25.000 : 30.000
	5.0000 : 10.000		30.000 : 35.000
	10.000 : 15.000		35.000 : 40.000
	15.000 : 20.000		40.000 : 45.000
	20.000 : 25.000		> 45.000

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Flight Parameters

1000 ft altitude
500 ft line spacing
110 knots
1 second acquisition time

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Brief Discussion of Results

Chemical

No significant chemical detections. Minor detections of the following chemicals were measured from greatest to lowest concentrations:

1. *Ozone,*
2. *Formic acid,*
3. *PAN (peroxyacetyl nitrate, "smog"),*
4. *Methanol, and*
5. *Ammonia*

These minor detections are consistent with what is normally found in natural fires.

Radiological

No significant radiological detections.

Photography

Aerial photographs were collected over Abiquie (5), Espanola (9), Taos (10) and active fire areas (15).

Infrared Imaging

Conducted over active fire locations will be provided in a subsequent report.

General Observations

1. *Fairly turbulent flying conditions*
2. *Heavy to light smoke observed over and/or near most of the locations.*